

Pre-Algebra Student Progress Checklist

Unit	#	Lesson	Title	Week	Topic	Date Completed	Practice Problems Completed?	Rate your mastery on a scale of 1-10
Rigid Transformations and Congruence	8.1.2	1	Spinning, Flipping, Sliding	Week 1 Aug 21-24	Naming Transformations			
	8.1.3	2	Transformation Golf		Sequences of Transformations			
	8.1.4	3	Moving Day		Transformations on Grids			
	8.1.5	4	Getting Coordinated	Week 2 Aug 28-31	Using Coordinates to Describe Transformations			
	8.1.6	5	Connecting the Dots		Describing Transformations Precisely			
	8.1	6	Quiz					
	8.1.7/8	6	Are They the Same? / No Bending, No Stretching	Week 3 Sep 4-7	Defining Congruence			
	8.1.9	7	Are They Congruent?		Rigid Transformations and Congruent Figures			
	7.7.2	8	Friendly Angles		Complementary and Supplementary Angles			
	7.7.3	9	Angle Diagrams	Week 4 Sep 11-14	Vertical Angles and Equations			
	8.1.10	10	Transforming Angles		Angle Measures in Parallel Lines			
	8.1.11	11	Tearing It Up		Angle Sums in Triangles			
	8.1.12	12	Puzzling It Out	Week 5 Sep 18-21	Proving the Triangle Sum Theorem			
	7.7.5	13	Can You Build It?		The Triangle Inequality			
	7.7.6	14	Is It Enough?		Building Polygons Given Side Lengths			
	7.7.7	15	More Than One?	Week 6 Sep 25-28	Building Triangles With Technology			
	7.7.8	16	Can You Draw It?		Drawing Triangles With Rulers and Protractors			
	7.7	17	End Assessment					
Scale Drawings, Dilations, and Similarity	7.1.2	17	Scaling Robots	Week 7 Oct 2-5	Lengths and Scaled Copies			
	7.1.3	18	Make It Scale		Drawing Scaled Copies			
	7.1.6	19	Introducing Scale		Comparing Scale Factor and Scale			
	7.1.7	20	Will It Fit?	Week 8 Oct 9-12	Scale Drawings			
	7.1.9	21	Scaling Buildings		Creating Scale Drawings			
	7.1	22	Quiz					
	8.2.1	22	Sketchy Dilations	Week 9 Oct 16-19	Exploring Dilations and Similarity			
	8.2.2	23	Dilation Mini Golf		Dilations With No Grid			
	8.2.3	24	Match My Dilation		Dilations on a Square Grid			
	8.2.4	25	Dilations on a Plane	Week 10 Oct 23-26	Dilations with Coordinates			
	8.2.5	26	Transformation Golf With Dilations					
	8.2.6	27	Social Scavenger Hunt		Dilations and Similarity			
	8.2.7	28	Are Angles Enough?	Week 11 Oct 30-Nov 2	Similar Polygons			
	8.2.8	29	Shadows		Similar Triangles			
	8.2.9	30	Water Slide		Side Length Quotients in Similar Triangles			
	8.2	31	End Assessment		Slope of Lines			
Writing and Solving Equations and Inequalities	7.6.1	31	Toothpicks and Tiles	Week 12 Nov 6-9	Nonproportional Relationships			
	7.6.2/3	32	Smudged Receipts / Equations		Representing Contexts With Tape Diagrams and Equations			
	7.6.4	33	Seeing Structure		Practice With Tape Diagrams and Equations			
	7.6.5	34	Balancing Moves	Week 13 Nov 13-16	Introduction to Balanced Hangers			
	7.6.6	35	Balancing Equations		Solving Equations With Balanced Hangers			
	7.6.7	36	Keeping It True		Solving Equations			
	7.6.8	37	Factoring and Expanding	Week 14 Nov 27-30	Options for Solving One Equation			
	7.6.9	38	Always-Equal Machines		Equivalent Expressions			
	7.6.10	39	Collect the Squares		Adding Expressions			
	7.6.11	40	Equation Roundtable	Week 15 Dec 4-7	Solving Equations by Adding Terms and Expanding			
	7.6.12	41	Community Day		Using Equations to Solve Problems			
	7.6	42	Quiz					
	8.4.3	42	Balanced Moves	Week 16 Dec 11-14	Balancing Moves and Undoing			
	8.4.4	43	More Balanced Moves		Solving Linear Equations Part 1			
	8.4.1	44	Number Machines		Solving Linear Equations Part 2			
	8.4.6	45	Strategic Solving	Week 17 Dec 18-21	Solving Linear Equations Part 3			
	8.4.7	46	All, Some, or None?		Equations With One, Many, or No Solutions			
	8.4.8	47	When Are They the Same?		Solving Linear Equations in Context			
	8.4	48	Quiz	Week 18 Dec 22-25				
	6.7.6	48	Tunnel Travels		Graphing Inequalities			
	6.7.7	49	Comparing Weights		Writing Inequalities			
	6.7.8	50	Shira's Solutions	Week 19 Dec 26-29	Solutions to Inequalities			
	7.6.14	51	Unbalanced Hangers		Solutions to Inequalities			
	7.6.15	52	Budgeting		Solving Inequalities in Context			
Linear Relationships and Systems of Equations	7.6.16	53	Shira the Sheep	Week 20 Dec 30-Jan 2	Solving Inequalities With Positive and Negative Numbers			
	7.6.17	54	Write Them and Solve Them		Modeling With Inequalities			
	7.6	55	End Assessment					
	8.3.1	55	Turtle Time Trials	Week 21 Jan 3-6	Understanding Proportional Relationships			
	8.3.2	56	Water Tank		Graphs of Proportional Relationships			
	8.3.3	57	Posters		Comparing Proportional Relationships			
	8.3.4	58	Stacking Cups	Week 22 Jan 7-10	Introduction to Linear Relationships			
	8.3.5	59	Flags		Representations of Linear Relationships			
	8.3.6	60	Translations		Translating $y=mx+b$			
Semester Ends	8.3.7	61	Water Cooler	Week 23 Jan 11-14	Slopes Don't Have to Be Positive			
	8.3.8	62	Landing Planes		Calculating Slope			
	8.3.9	63	Coin Capture		Equations of All Kinds of Lines			
	8.3		Quiz					
			Semester Ends					

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Linear Relationships and Systems of Equations	8.3.10	64	Solutions	Week 1 Jan 16-18	Solutions to Linear Equations			
	8.3.11	65	Pennies and Quarters		Using Linear Equations to Solve Problems			
	8.4.9	66	On or Off the Line?		Interpreting Points On or Off the Line			
	8.4.10	67	On Both Lines	Week 2 Jan 22-25	Representing Systems of Linear Equations			
	8.4.11	68	Make Them Balance		Graphing Systems of Linear Equations			
	8.4.12	69	Line Zapper		Solving Systems of Linear Equations			
	8.4.13	70	All, Some, or None? Part 2	Week 3 Jan 29-Feb 1	Systems of Equations With One, Many, or No Solutions			
	8.4.14	71	Strategic Solving Part 2		Solving More Systems of Equations			
			End Assessment					
Functions	8.5.1	72	Turtle Crossing	Week 3 Jan 29-Feb 1	Making Sense of Graphs			
	8.5.2	73	Guess My Rule		Introduction to Functions			
	8.5.3	74	Function or Not?		Graphs of Functions and Non-Functions			
	8.5.4	75	Window Frames	Week 4 Feb 5-8	Functions and Equations			
	8.5.5	76	The Tortoise and the Hare		Interpreting Graphs of Functions			
	8.5.6	77	Graphing Stories		Creating Graphs of Functions			
	8.5.7	78	Feel the Burn	Week 5 Feb 12-15	Comparing Representations of Functions			
	8.5.9	79	Piecing It Together		Modeling With Piecewise linear Functions			
			End Assessment					
Associations in Data	8.6.1	80	Click Battle	Week 5 Feb 12-15	Organizing Data			
	8.6.2	81	Wing Span		Plotting Data			
	8.6.3	82	Robots		What a Point on a Scatter Plot Means			
	8.6.4	83	Dapper Cats	Week 6 Feb 20-22	Lines of Fit and Outliers			
	8.6.5	84	Fit Fights		Fitting a Line to Data			
	8.6.6	85	Interpreting Slopes		The Slope of a Fitted Line			
	8.6.7	86	Scatter Plot City	Week 7 Feb 26-29	Observing More Patterns in Plots			
	8.6.8	87	Animal Brains		Analyzing Bivariate Data			
	8.6.9	88	Tasty Fruit		Two-Way Tables and Bar Graphs			
	8.6.10	89	Finding Associations	Week 8 Mar 4-7	Using Data Displays to Find Associations			
	8.6.11	90	Federal Budgets		Creating Data Representations			
			End Assessment					
Volume and Surface Area	7.7.9	91	Slicing Solids	Week 8 Mar 4-7	Describing Cross Sections			
	7.7.10	92	Simple Prisms		Using Base Area to Calculate Volume			
	7.7.11	93	More Complicated Prisms		Calculating Volumes of Right Prisms			
	7.7.12	94	Surface Area Strategies	Week 9 Mar 11-14	Surface Area of Right Prisms			
	8.5.10	95	Volume Lab		Exploring Volume			
	8.5.11	96	Cylinders		The Volume of a Cylinder			
	8.5.12	97	Scaling Cylinders	Week 10 Mar 18-21	Scaling Cylinders Using Functions			
	8.5.13	98	Cones		Volume of Cones			
	8.5.15	99	Spheres		Volume of Spheres			
	7.7.13	100	Popcorn Possibilities	Week 11 Apr 1-4	Applying Volume and Surface Area			
			End Assessment					
Exponents and Scientific Notation		101	Catch Up Day	Week 11 Apr 1-4	TBD			
	8.7.1	102	Circles		Exponent Review			
	8.7.2	103	Combining Exponents		Equivalent Expressions With Exponents			
	8.7.4	104	Rewriting Powers	Week 12 Apr 8-11	Rewriting Exponential Expressions as a Single Power			
	8.7.5	105	Zero and Negative Exponents		Using Patterns to Understand Zero and Negative Exponents			
			Quiz					
	8.7.7	106	Scales and Weights	Week 13 Apr 15-18	Describing Large and Small Numbers Using Powers of 10			
	8.7.8	107	Point Zapper		Representing Large and Small Numbers on the Number Line			
	8.7.9	108	Use Your Powers		Applications of Arithmetic With Powers of 10			
	8.7.10	109	Solar System	Week 14 Apr 22-25	Definition of Scientific Notation			
	8.7.11	110	Balance the Scale		Multiplying, Dividing, and Estimating With Scientific Notation			
	8.7.12	111	City Lights		Adding and Subtracting With Scientific Notation			
Pythagorean Theorem and Irrational Numbers	8.7.13	112	Star Power	Week 15 Apr 30-May 2	Let's Put It to Work			
			End Assessment					
	8.8.1	113	Tilted Squares	Week 16 May 6-9	The Areas of Tilted Squares			
	8.8.2	114	From Squares to Roots		Side Lengths and Areas			
	8.8.3/4	115	Between Squares / Root Down		Approximating Square Roots			
	8.8.5	116	Filling Cubes	Week 17 May 13-16	Edge Lengths, Volumes, and Cube Roots			
	8.8.6	117	The Pythagorean Theorem		Exploring Squares in Right Triangles			
	8.8.7	118	Picture to Prove It		Triangle-Tracing Turtle			
	8.8.8	119	Triangle-Tracing Turtle	Week 18 May 20-23	Finding Unknown Side Lengths			
	8.8.9	120	Make It Right		The Converse of the Pythagorean theorem			
	8.8.10	121	Taco Truck		Applications of the Pythagorean theorem			
	8.8.11	122	Pond Hopper	Week 19 May 27-30	Finding Distances in the Coordinate Plane			
	7.4.13/8.8.12	123	Decimal Deep Dive / Fractions to Decimals		Decimal Representations of Rational Numbers			
	8.8.13	124	Decimals to Fractions		Infinitesimal Decimal Expansions			
	8.8.14	125	Hit the Target	Week 20 Jun 3-6	Rational and Irrational Numbers			
			End Assessment					